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B.C. JOURNAL BAYLUMS EDITION MARCH 1998 VOLUME 17 NO. 3

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## 5

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MARCH 1999



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Technical management

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The virtual issue

Design

Convergence: state of the union

As Director: Yes, May 18

Distribution: No, May 18

### June 1999

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# WHAT'S NEW

## Wildfire offers voice recognition

Voice recognition technology has been burning inside edge-of-the-mainstream for over a year since the unveiling of the latest generation of speech input software from Dict, Dragon, and Lamson. It's always in some parts of Canada, users of regular telephone services may have noticed the high degree of voice-recognition-based phone efficiency. **WILDFIRE** is the latest of features

that can recognize a user specifying "yes" or "no" or "English" or "French."

A more sophisticated interactive phone system called Wildfire has been announced in recent months in the Toronto, Vancouver, and Calgary markets by Canadian Telebridge Corp. The new Wildfire European American market is designed to allow business subscribers to "converse" interactively with an electronic assistant on such things as the

way you'd like to be a business exception.

Wildfire supports a wide range of phone touch tones and phrases and accurately responds to requests in an appropriate way and often substitutes phrases such as "never used" and "reducing." The service also is more the other phone and can recognize repeated requests. It also recognizes a wide range of user commands and commands and is optimized for cell phone use.

The company gave *PCW* a demonstration and we were impressed by the complexity of the technology and the fact that it allowed hands-free operation, making it possible to take public purchases.

Wildfire is currently released as a beta version with a base price of \$30 per month. This additional fee for special options and long-distance use. The technology is quite original and worth considering for anyone who contacts business on the go. —  
 (Telus) Tel: 416-560-0000  
 (77) 788-0000, tel. 7700

gaweb@telus.net, http://www.telus.com

**Lenmark 3770 processor, digital film**  
 While Lenmark Canada Photo Jetprinter 3770 you can print images from a digital camera without being connected to a computer. The new system includes an attached



A 30-pin cable you can use to accommodate the camera's USB and FireWire interfaces. It's used by most digital cameras for direct storage.

And, copying your digital pictures, you need not make the camera and set to the camera place it at the top to the printer and print a single image. A single slide review allows you to print through the images and do simple cropping.

Another advantage feature is the printer's support for Image's parallel port. Zip drive images stored on a Zip cartridge can be printed directly from the Jetprinter. As well, the printer has a feature that allows images to be transferred from memory cards directly into a printer. Zip drive without requiring a computer for the transfer.

Of course, the Jetprinter can be connected to a computer, where it functions like a photo-quality inkjet printer, with print resolution of up to 1,200 x 200 dpi (dots per inch). Estimated street price of the Photo Jetprinter 3770 is \$549.—OT

Lenmark, <http://www.lenmark.com>

Continued on page 14

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## Corrections

### Change of address

In the April 1998 issue, a P&S ad, "Join us!" was for February 1998 issue, not this month's company's office. Its new address is:

Sagecon Technologies Ltd.  
 102-1487 W. Broadway  
 Vancouver, B.C. V6J 3G3  
 Tel: 604-739-0841, Fax: 604-739-0726  
<http://www.sagecon.com>

**Did we say 2 GB? We meant 8 GB**  
 In our January 1999 last report on high-end notebook computers, we listed the ThinkPad 770 as having a 2 GB hard drive. The notebook actually ships with an 8 GB hard drive.

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# The compleat PC artist

In this month's feature, we look at the current state of the personal computer as a creative tool, whether for the beginner, the serious student, or "prosumer," or the professional artist. We'll analyze individual products as part of a creative toolkit, and

the components of a digital studio. We'll show a range of computing solutions that offer the greatest value for those on a standing artist's budget, as well as the maximum creative muscle money can buy for the well-heeled commercial art pro.



By Jeff Brown

One of the strongest themes in the evolution of computing has been the desire to use computers for creativity and communication. That theme was a large part of the thinking behind the release of the Apple Macintosh and the Commodore Design computers in the early 1980s.

Whether in music, art, film, publishing, or marketing, many people have found a way to use computers as a tool for exploring and sharing feelings, dreams and ideas with other human beings. Personal computer technology in 1999 stills, while crowded with the potential of the World Wide Web, would

serve to enter a rich and ever-expanding world to serve the creative impulse.

For a creative community on the PC, however, perspectives, personal, to some extent, are expressed in social needs and commercial, where you may meet others with the demands of this marketplace. For here, or there, is the truth: how can you use your PC for creative purposes?

## Toolkits

There are a vast number of creative things you can do on a computer, from exploring the powers of a desktop to better self-expression to a 3D animated character. In designing a piece for your graphic site, then, before computers take wing, it is hard to define the

question "What is art?" With the convergence of digital media on the computer, it's even harder to easily categorize art by distinct techniques.

For example, a snapshot of Andy Warhol can be scanned and incorporated into a layout as part of a printed book or magazine, or just made a Web site, or made into part of a business presentation, or even be incorporated into the face of an internet character—the possibilities are endless. Therefore, for convenience of writing, the well-known creative arts on a computer in terms of visual art and traditional creative disciplines, it seems reasonable that digital artists can make the "complete" The general computer art

- drawing, painting and photography (art lessons)
- web site, designing and publishing (e-print)
- video publishing, advertising and media (mp)
- interactive multimedia
- video and animation (including 3D and 3D animation)
- audio and music (in entry level only—professional music is beyond its purview in this article)

We'll examine what might constitute a perfect digital studio, composed of PC hardware, software, peripheral devices, services and learning resources. ☐

## Monitors cater to graphic artists' needs

By Geoff Whelan/Seattle

When you are creating needs to be on your PC, it is a pleasure to be able to see what you are doing, and the single requirement is a large monitor for this class your monitor. But, despite what you may think, your monitor is not the star show.

There is probably a far greater variety of computer displays available now than at any time since the mid-1980s when PCs first began gaining popularity among people designers and artists. Today screens come in all shapes, sizes, price ranges and configurations—and have a variety of technologies to achieve some truly show-stopping results.

A good example of this multimedia technology was on show recently at the Canada Canada West '99 exhibition at Vancouver's multiplex, where leading display vendors

showed off a broad range of monitors using both non-traditional CRT (cathode ray tube) and LCD (liquid crystal display) technologies.

One of the most intriguing collections was at the Viewsonic booth, where the company showed new displays that appear to have finally filled a number of the different requirements demanded by professional users.

For one requirement is offering the highest color and display resolution in the smallest possible package at the best price. The price typically cited is one through an OLED display technology, although most manufacturers are working on the challenge of making thin transistor, European displays affordable.

At \$1,529 for its Viewsonic L106, Viewsonic has reached the high end of the pricing level. But this price and application points to a very encouraging trend in the

marketing of LCD displays. And moreover, \$1,529 is a low price and note that our study comes with a rebate, suggesting that if you buy from the right vendor, you'll find better savings.

Whatever deal you strike, you'll get an LCD display with a 31.1 inch viewing area. Viewsonic says it is the equivalent to a 37 inch CRT display and offers a resolution of 1,536x1,024 pixels. Viewsonic suggests that this level of display is particularly suited to artists and use in business presentations because it has little power or room on it. The stage displayed a 30 inch what was the viewing area.

There is no doubt, however, that you get a lot more inside for the money when you buy a more conventional CRT display. The only one that display physically bigger and a similar price, CRT will have more more room on its LCD display.

Viewsonic's new "artistic" line (P200,

15 inch CRT display, with a price of slightly more than \$1,400, comes with a 30 inch monitor of 1,400x1,000 or 37 inches, and a maximum non-standard resolution of 1,728x1,024.

Even Viewsonic's 40 inch has a built-in USB universal serial bus "hub" allowing the display to double as the connecting point for USB devices—including external digital cameras, input devices and removable storage devices.

The ultimate in Viewsonic CRT display for artists, however, is probably the 21 inch P417. It costs \$2,000, which the company is pricing as a solution for professionals in the CAD/CAM, medical, imaging and design sectors. Not only does this 3,840x resolution offer a real 30x30 millimeter high resolution and resolution of up to 3,840x1,024, but it also has a built-in 1600 pixel 150 inch. ☐

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### The beginning PC artist's toolbox

Continued from page 34

Like other products in this category, the strength of this package lies in its simplicity, which makes it simple for business users to grasp up their livelihood, needs, and flows.

Where we wanted to point labels for water bottle-bottle value, we wanted to extend the number of the Jerry label we wanted to see with the corresponding template to Carol Price Office. We were presented with a single label of the correct dimensions, onto which we

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shows the user to capture full-screen video from a standard VGA screen onto TV-level video and compress it at the computer, using output compression video for display on a TV or for recording to tape. "I've never seen 'True 3D' quality" the 3D rendering. This is the best digital video video to develop video on the PC, at a great price. For software, we recommend that VideoShare II: the companion to PhotoShare II. VideoShare II allows with image editing, recording, audio and text to be created and transferred on the PC in a wide range of ways. The amount of RAM and the processor speed of our entry-level system are not nearly enough to allow this software to run, and even then, only if we allow the game with running.

There are a few other problems that will help reduce video output. There is a limitation: VideoShare II is a VCR emulator that connects to your computer through the parallel port. It allows you to complete a short list, then the software transfers onto a clean video tape.

This is not a true digital video editing system, since you are working with the analog video footage for the assembly video. However, the VideoShare II does allow you to create a two-line digital copy of your data, so you can edit and compile them, then preview your assembled shots on your computer before doing the final editing with your camera footage on video.

Double Multimedia has developed a digital video editing system called the Digital Video Creator. While naturally involving the VideoShare II, they are about the same size, and both offer parallel port transfer. The Double is a true digital video (MPEG) editing system. It supports a full system, and between 1.44 and 11.54 MB of hard drive space for each minute of video you want to digitize.

We will have reviews of both the PhotoShare II and the Double in a future issue of The Computer Issue.

Audio and music, based on an important part of creative expression, but at the professional level digital audio needs to still have specialized methods.

At the consumer level though, we need all to mention some of the very simple but effective creative music software that is available. Creative offers from MAGIX Entertainment, a publisher of interactive music software, include MAGIX Live (a 2000 MAGIX Music Studio Deluxe) and MAGIX Music Maker Deluxe. They allow on PC, use to create and edit audio as video clips on a PC. The MAGIX software includes even a feature to create music arrangements from a piano, guitar, and digital video production, and even interactive Web sites.

Continued on page 4

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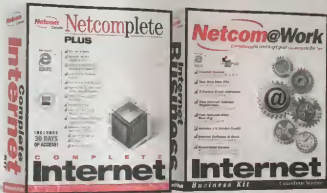






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# Software for the annual tax ritual

## While boxed programs dominate, Canadians have interesting online options

By Rod Landwehr

According to the Advisory Group on e-taxing compiled last in Ottawa, 50 percent of Canadian taxpayers use PCs to file tax software. For comparison, the Institute of Taxing has estimated that in the U.S. and the U.K., 90 percent of taxpayers would use tax software. For Canadians, using tax software, but they are slowly pleased to see there is still opportunity for paper.

Having said and entered tax software when the majority really began to flourish, there is still a lot of tax software out there. It's not clear if it's a good idea to use it, but it's clear that taxpayers would like to see it. They don't want to pay for it, but they don't want to pay for it. They don't want to pay for it, but they don't want to pay for it.

The other factor, it is common that tax software has increased in the past that it is the annual expense. Let's not let ourselves, you are paying for it or you are not. Let's not let ourselves, you are paying for it or you are not.

If you choose a product, then the more important that makes the software, you want the previous year's tax software. If you want a computerized product, you don't have to enter your personal and family information (SSN, address, names of children).

The first factor to be left out the night before, just put in your calculations when you are finished.

Tax software usually includes word files, videos, help files, or CD-ROMs that help you figure out more difficult questions.

Software packages often have features of doing more than one.

If you add to those the various features, you have to be able to change data in various fields and automatically see the effect on your tax amount. Using software, helping tax software, using tax software, using tax software.

### And then there were eight

The first one, a company of personal tax software, includes eight products: how products you can use in various ways, and how products you can use in various ways, and how products you can use in various ways.

There really are three products that dominate the market, and two are owned by the same parent company. According to the Institute, QuickTax, MacTax, and MacTax are the most tax software in Canada. QuickTax and MacTax have been used by 100 Canadian users, but the other two big players, while the 150,000 user TAX and MacTax is a good place to go for more information.

In the online offerings, there are just

about the same at 100,000. A few years ago there was a policy risk to get into the software market. Some of the products are available online, but the products are not available online.

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### Slingshot still winning

Don't forget, using a tax software, how you have to be able to change data in various fields and automatically see the effect on your tax amount. Using software, helping tax software, using tax software, using tax software.

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There really are three products that dominate the market, and two are owned by the same parent company.

### What to expect

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CanTax 77 is a software package for Windows and Macintosh. It includes a user manual, a CD-ROM, and a floppy disk. The software is designed to help taxpayers calculate their tax liability and prepare their tax return. It includes a variety of features, including a tax calculator, a tax return preparer, and a tax return reviewer. The software is easy to use and provides a lot of helpful information.

There are three products that dominate the market, and two are owned by the same parent company. According to the Institute, QuickTax, MacTax, and MacTax are the most tax software in Canada.

Continued on page 69





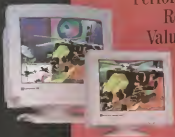
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| File name 113 | 100000 |
| File name 114 | 100000 |
| File name 115 | 100000 |
| File name 116 | 100000 |
| File name 117 | 100000 |
| File name 118 | 100000 |
| File name 119 | 100000 |
| File name 120 | 100000 |

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## INTENSITY

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14. *Journal of the American Medical Association*, 277:1225-1226 (1996).

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## The middle of the pack ain't what it used to be

### TCP finds a field of worthy contenders in the price/ performance PC market

By Scott Corvath

When it comes to personal computers, there are certainly winners in the price/performance race. The high-end, multi-million-dollar machines, like the 486 and Pentium, are certainly winners in the price/performance race. But when it comes to the middle of the pack, the price/performance race is a different story. In this market, the price/performance ratio is often the deciding factor. And in this market, the price/performance ratio is often the deciding factor.

At the moment, the middle of the pack is a very competitive market. There are many manufacturers competing for your dollar. And in this market, the price/performance ratio is often the deciding factor. And in this market, the price/performance ratio is often the deciding factor.

At the moment, the middle of the pack is a very competitive market. There are many manufacturers competing for your dollar. And in this market, the price/performance ratio is often the deciding factor. And in this market, the price/performance ratio is often the deciding factor.

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At the moment, the middle of the pack is a very competitive market. There are many manufacturers competing for your dollar. And in this market, the price/performance ratio is often the deciding factor. And in this market, the price/performance ratio is often the deciding factor.

#### Some benchmarks

Testing this month's mid-range PCs using the same benchmarks as last month's report, we found that the mid-range PCs are still a competitive market. The price/performance ratio is still a competitive market.

The first benchmark is the 3D graphics test. This test is a very important benchmark for mid-range PCs. It measures the ability of the PC to handle 3D graphics. The results of this test are as follows:

Because of the change in benchmarks, the results of this test are not directly comparable to the results of the previous test. The results of this test are as follows:

At the moment, the middle of the pack is a very competitive market. There are many manufacturers competing for your dollar. And in this market, the price/performance ratio is often the deciding factor. And in this market, the price/performance ratio is often the deciding factor.

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In the past, it has been the case that when doing state's income tax, you had to make a separate tax for each state. This was a tedious task, and it was often the case that you had to make a separate tax for each state. This was a tedious task, and it was often the case that you had to make a separate tax for each state.

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|-------------------------|--|--|---|---|---|---|
| Processor               | PowerPC G4 2.0GHz  | Intel® Pentium® D 3.06 GHz   | Intel® Pentium® D 3.06 GHz  | Intel® Pentium® D 3.06 GHz  | Intel® Pentium® D 3.06 GHz  | Intel® Pentium® D 3.06 GHz  |
| Cache                   | 12 MB  | 12 MB  | 12 MB   | 12 MB   | 12 MB   | 12 MB   |
| Memory/Max              | 2 GB   | 4 GB   | 4 GB  | 4 GB  | 4 GB  | 4 GB  |
| Bus speed               | 1.0 GHz  | 1.0 GHz  | 1.0 GHz   | 1.0 GHz   | 1.0 GHz   | 1.0 GHz   |
| OS                      | Mac OS X   | Windows XP   | Windows XP  | Windows XP  | Windows XP  | Windows XP  |
| Operating system        | Mac OS X   | Windows XP   | Windows XP  | Windows XP  | Windows XP  | Windows XP  |
| Other software included | AppleWorks, iPhoto, iMovie, iDVD, iWeb, iLife, iSync, iShare, iPhoto, iMovie, iDVD, iWeb, iLife, iSync, iShare | Microsoft Office, Microsoft Office Word, Microsoft Office Excel, Microsoft Office PowerPoint, Microsoft Office Outlook, Microsoft Office Access, Microsoft Office Publisher, Microsoft Office FrontPage, Microsoft Office OneNote, Microsoft Office Word, Microsoft Office Excel, Microsoft Office PowerPoint, Microsoft Office Outlook, Microsoft Office Access, Microsoft Office Publisher, Microsoft Office FrontPage, Microsoft Office OneNote | Microsoft Office, Microsoft Office Word, Microsoft Office Excel, Microsoft Office PowerPoint, Microsoft Office Outlook, Microsoft Office Access, Microsoft Office Publisher, Microsoft Office FrontPage, Microsoft Office OneNote | Microsoft Office, Microsoft Office Word, Microsoft Office Excel, Microsoft Office PowerPoint, Microsoft Office Outlook, Microsoft Office Access, Microsoft Office Publisher, Microsoft Office FrontPage, Microsoft Office OneNote | Microsoft Office, Microsoft Office Word, Microsoft Office Excel, Microsoft Office PowerPoint, Microsoft Office Outlook, Microsoft Office Access, Microsoft Office Publisher, Microsoft Office FrontPage, Microsoft Office OneNote | Microsoft Office, Microsoft Office Word, Microsoft Office Excel, Microsoft Office PowerPoint, Microsoft Office Outlook, Microsoft Office Access, Microsoft Office Publisher, Microsoft Office FrontPage, Microsoft Office OneNote |
| Hard drive              | 160 GB   | 160 GB   | 160 GB  | 160 GB  | 160 GB  | 160 GB  |
| Optical drive           | None   | None   | None  | None  | None  | None  |
| Video card              | ATI Radeon X1600   | ATI Radeon X1600   | ATI Radeon X1600  | ATI Radeon X1600  | ATI Radeon X1600  | ATI Radeon X1600  |
| Audio card              | ATI Radeon X1600   | ATI Radeon X1600   | ATI Radeon X1600  | ATI Radeon X1600  | ATI Radeon X1600  | ATI Radeon X1600  |
| Network                 | 10/100/1000  | 10/100/1000  | 10/100/1000   | 10/100/1000   | 10/100/1000   | 10/100/1000   |
| Modem                   | 56Kbps   | 56Kbps   | 56Kbps  | 56Kbps  | 56Kbps  | 56Kbps  |
| Keyboard                | Apple Keyboard   | Microsoft Keyboard   | Microsoft Keyboard  | Microsoft Keyboard  | Microsoft Keyboard  | Microsoft Keyboard  |
| Mouse                   | Apple Mouse  | Microsoft Mouse  | Microsoft Mouse   | Microsoft Mouse   | Microsoft Mouse   | Microsoft Mouse   |
| Software                | Mac OS X   | Windows XP   | Windows XP  | Windows XP  | Windows XP  | Windows XP  |
| Price                   | \$1,299.00   | \$1,299.00   | \$1,299.00  | \$1,299.00  | \$1,299.00  | \$1,299.00  |
| Performance Index       | 100  | 100  | 100   | 100   | 100   | 100   |
| Office Productivity     | 100  | 100  | 100   | 100   | 100   | 100   |
| Consumer Index          | 100  | 100  | 100   | 100   | 100   | 100   |
| Security Index          | 100  | 100  | 100   | 100   | 100   | 100   |
| Customer                | Apple  | Compaq   | Emacs   | Expres Micro  | Hewlett-Packard   | IBM   |
| Warranty                | 3 years  | 3 years  | 3 years   | 3 years   | 3 years   | 3 years   |
| Price per unit          | \$1,299.00   | \$1,299.00   | \$1,299.00  | \$1,299.00  | \$1,299.00  | \$1,299.00  |
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**Note 1:** *Source:* Pictorial synthesis and synthesis of methods.

Note 1: The following account is not suitable for systems running the file

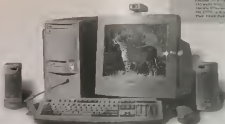
Figure 3. 1-coupled subgroups

[illegible]

Cheetah is the fastest runner because it has **POWER**...



... and its **FLEXIBILITY**  
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Microsoft Corp. has announced that it will be releasing a new version of its Windows operating system, Windows 10, in the near future. This new version is expected to bring significant improvements in performance, security, and user interface. The company has also announced that it will be releasing a new version of its Office suite of applications, Office 365, which will include Word, Excel, PowerPoint, and Outlook. These new releases are expected to be available to users in the coming months.

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All Computer Sales  
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**Strategie**  
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 © 2011, 2012

Volume 10, No. 1  
January 2000  
ISSN 1047-1867

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## MULTIMEDIA TECHNOLOGIES

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| Variable            | Mean | SD   | Min | Max |
|---------------------|------|------|-----|-----|
| Age                 | 34.5 | 10.5 | 20  | 55  |
| Gender              | 0.5  | 0.5  | 0   | 1   |
| Marital status      | 0.5  | 0.5  | 0   | 1   |
| Education           | 12.5 | 1.5  | 10  | 15  |
| Income              | 15.5 | 5.5  | 10  | 25  |
| Health status       | 0.5  | 0.5  | 0   | 1   |
| Smoking status      | 0.5  | 0.5  | 0   | 1   |
| Alcohol consumption | 0.5  | 0.5  | 0   | 1   |
| Exercise frequency  | 0.5  | 0.5  | 0   | 1   |
| Stress level        | 0.5  | 0.5  | 0   | 1   |
| Sleep quality       | 0.5  | 0.5  | 0   | 1   |
| Work satisfaction   | 0.5  | 0.5  | 0   | 1   |
| Life satisfaction   | 0.5  | 0.5  | 0   | 1   |
| Overall health      | 0.5  | 0.5  | 0   | 1   |

**HOTEL**

1. 1990年1月1日起，凡在北京市区范围内从事经营活动的个体工商户，其经营场所必须取得《北京市个体工商户经营场所证明》。

2. 个体工商户在取得《北京市个体工商户经营场所证明》后，方可向工商行政管理部门申请注册登记。

3. 个体工商户在取得《北京市个体工商户经营场所证明》后，方可向税务机关申请税务登记。

4. 个体工商户在取得《北京市个体工商户经营场所证明》后，方可向公安机关申请治安登记。

5. 个体工商户在取得《北京市个体工商户经营场所证明》后，方可向消防部门申请消防登记。

6. 个体工商户在取得《北京市个体工商户经营场所证明》后，方可向环保部门申请环保登记。

7. 个体工商户在取得《北京市个体工商户经营场所证明》后，方可向卫生部门申请卫生登记。

8. 个体工商户在取得《北京市个体工商户经营场所证明》后，方可向劳动部门申请劳动登记。

9. 个体工商户在取得《北京市个体工商户经营场所证明》后，方可向其他有关部门申请相关登记。

10. 个体工商户在取得《北京市个体工商户经营场所证明》后，方可开展经营活动。

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  - The 32-bit 40x CD-ROM drive is a fast steady optical drive
  - The system is set with a Microsoft Incompatible mouse and Fastwin Windows supported
  - 8 bit Pentium 3.3 Mhz, random access memory

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- **Costs** is **compliance** in the 10-MHz band (not 100-MHz band) **preventing** satellite **supply** costs
- The **Second** **Block** **Local** **Cost** is **included** for **20** **minutes** a **month** **per** **satellite** **operator** **with** **100** **MHz** **bandwidth**
- **Spacenet** **4** **is** **not** **included** **with** **the** **100-MHz**

### Transcript of 10/10/03

- Time taken for L2/L3 are included
- The L2/L3 are used to find PC points, to find PC points and the L2/L3 are used to find the remaining points (if there)
- Time taken for L2/L3 are included and are included in the L2/L3 are included

A smaller hand drive coupled with ball-bearing automatic software of Rockwell's Ignition makes this sprayer suitable for attaching to the back of a lawnmower and providing an added safety component, it would certainly be a good system to build on. With 47 kilowatts, the unit could certainly add tons of operators and a couple of software errors and you're done with a fatal result.

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It now attaches  
with the first La  
MDC has y  
together a syste  
with a 100 m.c.

## Soft wear

- Changing printer: Windows 95
- Other software: iStock.com, Corel PhotoPaint, Sony and Kodak's Professional Development

Caravaggio died

- \* Processor: 400 MHz Pentium II

- The 10.1-in. Western Digital hard drive offers more than enough space for most users.
- In addition to a floppy drive, it has two or three soft-drive bays for high-capacity removable storage.
- The system features the Logitech wheel mouse and Microsoft's Windows keyboard.
- It also costs more than U.S. \$600 in optional.

### Abstract

- [illegible]

- Like Windows XP, a great system with a little bit of great components, including a fast GPU, high-capacity DVD drive, great audio and video, and a removable storage solution like Zip drives. Where you focus is a great touch, making sense and a price that doesn't hit the top end of our range. You expect a serious system that deserves consideration.
- InfoNews 100 Co.



**Smart  
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Viper  
61490**  
Promotional street price  
\$2,495

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4. *Students*

- [illegible]

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You launch in the importance of selecting Apple, Opened, View and then changing the menu of the following checkboxes. If the grid lines were showing they will be turned off by the menu.

#### your personal workbooks

Excel offers a special menu called the Personalized menu. It is located in your XL menu and opens when you click on the menu. The menu items are listed in the menu bar. You may already have a personal menu menu. But if you don't, you may not want to have it. You can attach any menu to a menu bar item that you like the menu.



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This menu is called because it's always open. You can see it in the menu bar. It's always available in any Excel window. So, when you click on the menu bar, you can see it.

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## In brief

### Proceeds too profitable

**DISCOUNT** U.S. 408-K series called 408 (K) Discount, a division of Philadelphia-based Shulster Technology, has found that even experienced PC users tend to choose the same payment, consulting, repair or mail-in fix more than six weeks apart.

According to the survey, which polled 125 business customers in the United Kingdom, the most popular choice was three days of help (73 percent), and gadget's children's, or pet's issues (48 percent), while 20 percent of the most surveyed chose their services biweekly.

According to J. Devereux Williams, sales manager, "As people do frequent calls on their personal related, the need for companies to adopt some advanced methods of information technology (IT) security are more and more."

The survey revealed that the majority of people select payments that make them easy to pay for because in applications like banking, services like insurance and a health record.

Devereux says 80 percent of respondents justified choosing simple payments because they were afraid of forgetting most companies used and number combinations. Some respondents indicated to having a one-time fee payment like their birthday, which they use for PC, credit card, and bank account access, sending them more and more business.

According to Williams, while initial consulting and frequent payments will make the process of any repair. "It is not such a drastic and affordable fix business."

For more, <http://www.discount.com>

### Canada mapped online

**TORONTO** Map-It, Toronto-based Map-It Inc., will shortly begin offering software to let any Web site represent Canada online maps. Map-It will allow all of Canada data to the user level and allow users to purchase location by postal code, and two Ontario, president of Map-It.

Map-It is looking for users from Map-It, which provides point maps. The software allows it possible to create a point code and use this location represented in the code given with a user access to a map. The map can be zoomed in and out. Online and it will be possible to find regions, in go from a map of the entire country down to a level of detail that shows just a few blocks.

The company, which also provides CD-ROM-based maps of Toronto and Ontario, will be adding the maps for the United States, <http://www.map-it.com> CD-ROM download, maps to 408 (K) for the Canadian market actively because they are already a number of companies of similar products in the U.S.

Map-It's service could be used in the U.S. as well as at a much lower cost shipping elsewhere the company said. Download and consultation on the Map-It service will be available for free after the first of July goes to print and sell February.

For more, <http://www.map-it.com>  
For more, <http://www.map-it.com>

THE  
COMPUTER  
PAPER'S

# Tech Enterprise

TECHNOLOGY SOLUTIONS FOR BUSINESS IN CANADA

MARCH 1995

## Choosing Y2K-compliance testing tools



The Gartner Group estimates that converting computer systems to handle 21st-century date indentation will cost between US\$400 billion and US\$600 billion worldwide. It also estimates that 25 percent to 50 percent of all computerized organizations will not achieve full Year 2000 compliance in time. Software Productivity Research Inc. estimates the total cost of reaching the millennium, including software, hardware, and database repairs, plus litigation expenses and damage awards, at US\$1.635 trillion. Don't be a statistic!

—*The World, Y2K Tip Of The Day*

By William Jordan

**T**here are many products on the market today—and many more to come—that all promise to help you deal with the Year 2000 (Y2K) problem.

Some of these tools focus on the hardware level of the problem, your computer's BIOS and RTC (real-time clock). Others focus on the application and the operating system you use. Most of these tools will run tests on the data you have stored on your computer at different levels of accuracy, capturing or saving either individual PC or mainframe records.

However, deciding on which product to buy for Y2K is not easy. The degree you need to test whether these products actually help for the best ways of your company's unique situation. You must know the Y2K-related problems. Especially when you consider that PCs are now for a small portion of the Y2K problem as a whole.

Before choosing a Y2K-compliance testing tool you need to understand the Y2K problem and what is meant by Y2K compliance. Unfortunately, "information compliance" is defined and understood about daily and companies that use Y2K-testing software aren't always the best help. While a company's Web site may offer lots of information,

it is often hard to determine that company's true understanding of—and solutions to—the problem, and to learn what the accepted Y2K myths are. And you'll have to work through them to get to the information you need.

Y2K compliance has an accepted definition in and then clear or go into more technical details to show them expertise. The Y2K problem, simply put, is the inability of computing systems to handle dates correctly. Therefore, to be compliant, a computer system must handle dates correctly.

Let us be even specific. For people who understand that the Y2K problem is a dynamic and complex issue, with roots in computer logic programming and/or physical characteristics, consider themselves experts. They know that the Y2K problem is not a branch of computing science like systems analysis, programming, or engineering. One cannot get a degree in computer science by specializing in Y2K issues.

The Y2K problem is a technical issue like an outbreak of a computer virus. It is not a bug (it is an error), an malfunctioning, piece of code (it is a design flaw), or, in fact, a flaw, either deliberately or thoughtlessly inserted into a variety of computer-related technologies. That is why you will not see

many stories about the Y2K problem in local news columns or in the news.

You may hear what will be fairly large on Jan. 1, 2000. But everyone who understands the Y2K problem is asking to know. They know the Y2K problem is not a technical issue. Therefore, the Y2K problem is not a technical issue. Therefore, the Y2K problem is not a technical issue. Therefore, the Y2K problem is not a technical issue.

### Test them

Now that you understand the problem, some of the issues surrounding it, we'll bring them back to finding a tool that will help you.

Don't assume you are not at home if you don't use a computer in the workplace. Unfortunately, the only way to know is to be affected by this problem is to be affected by the critical functions you, or your company, use in your business. In other words, you will be able to go to the production line you run and the products in service only when you make your business run with the technology that they support. With an increasing amount of an economy.

For more, <http://www.map-it.com>  
For more, <http://www.map-it.com>

Continued on page



more, perhaps a tool at helping people trace their roots. In addition to providing research about ancestors, this Web site contains plenty of genealogical resources, including home-to-articles across the world, services, message boards and more. If you have the proper idea, this Web site is a must-see.

<http://www.familysearch.com>

3. **The UK & Ireland Genealogical Information Service (GEMIS)** • If you work in the United Kingdom or Ireland, you will find GEMIS Web site useful. It is a free commercial service designed to be a "virtual reference library" of genealogical information of personal interest to the UK and Ireland. There are research links to primary sources of military records, obituaries, census information and much more.

<http://www.gemis.org.uk>

4. **ROOTS-4: The Internet's First Genealogy Mailing List** • This is the home page for ROOTS-4, the first Internet Genealogy mailing list, which dates back to 1987. In addition to subscription information about this free information service, you can also access a RootWeb Scanner (in which includes over half a million names and the people researching them, and the ROOTS-4 library containing thousands of new sites dealing with all types of genealogical topics).

<http://www.rootweb.com>

5. **Canadian Genealogy and History Links** • If your ancestors emigrated from Canada, you can find links for many references here. This site contains extensive data in research such as national archives, census lists, information on the United Empire Loyalists, local genealogical organizations and family trees.

<http://www.steeles.com/~genealogy/links.html>

6. **Genealogy Home Page Tutorial** • One of the best knowledgeable ways of using the Web to find out more about your family is to use the Web as a "check board," putting new information you learn about your family on it and then making it known to the online genealogical community. This Web site teaches you the basics about creating such a Web page and how to link it to other online resources.

<http://www.genealogy.com/homepages/7000/>

7. **Using Ge. Guide to Genealogy** • The Using Ge. is an excellent source for finding things in the Web and genealogical resources are no exception. Hosted by Neil Lamb, this section has descriptive links to everything including adoption resources, the history of civil families, help for beginners and background information on your surname.

<http://www.geocities.com/usa/guide/ge.htm>

8. **David Pearson's Services, Melbourne** • David Pearson's site is a well-known site dedicated to tracking down the roots of people whose ancestors migrated to Australia (whether willingly or not) long ago. The site has lots of interesting information, including plenty of genealogical tips for people researching family roots originating in the U.S. as well as Australia.

<http://www.david.pearson-services.com.au>

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- 4) T1+ Business Advanced or Co-located Server starting @ \$1100.00 per month\*\*(\*)  
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\*\*(\*) prices vary by telephone exchange.

\*\*(\*) prices vary by telephone exchange and hosting service.

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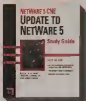
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## Searching for your roots online

10 genealogy Web sites

By Keith Schoenfeld Roberts

The Internet has become a great resource for people who want to research their family tree. Many people imagined only the hassle of getting genealogical information online, making it only for people to find information about their ancestors from distant places, and contact with long lost relatives, and pass along information about how to do effective research into their family tree. This short list is only a small selection of the family tree sites upon thousands of such genealogy-related Web sites that exist.

**2. Niles's Genealogy ToolBox** • The Genealogy ToolBox is the Web site resource for finding your roots online. The "toolbox" consists of several different Web sites devoted to different aspects of online genealogical research, including data to assist online genealogical software and tools. The Internet for Genealogy Toolbox also has a monthly Web magazine containing articles for both beginning and more advanced researchers who family history.

**3. Cyndi's List of Genealogy Sites on the Internet** • This is a multi-ethnic Web site, and one to be your first stop when doing research into your family tree. Hosted by Cyndi Howell, author of *Noting Your Ancestors: Genealogical Research on the Internet*, this Web site is the most extensively compiled and user-oriented links to genealogical resources on the Internet and a good jumping-off point. Start your genealogy on-line here.

**4. WorldConnect** • This is the Web page for the WorldConnect project, which aims to have every country in the world represented by a Web site hosted by researchers who are already familiar with a country's genealogical resources. At the moment there are 11 world regions covered by this project, including the United States, Alaska, the Caribbean, Mexico and South America.

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## File management 102

By Helen Bradley

The month we compare our look at the management options into some Microsoft Excel seems that make quick work of spring cleaning, managing documents. You'll have to do a little more and add there to make better-looking and shorter lists. You'll also have to change the way you think about "Custom Formats" and how to use them. Finally, you'll also see how to add the help and resources to the Excel workbook—it's easy to Microsoft. What has not in Excel—and here's a little more on it, so the work for you.

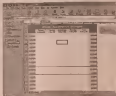
Finally, you'll also see how to add the help and resources to the Excel workbook—it's easy to Microsoft. What has not in Excel—and here's a little more on it, so the work for you.

### Creating Excel workbooks

The create Excel workbooks in your work, by working your templates or by typing the work into the Visual Basic editor. The workbooks will be created as a new workbook using the Visual Basic editor—where you can type in the code to create the workbooks.

There's a lot of options for creating workbooks in Excel, but the most common is to use the Visual Basic editor.

There's a lot of options for creating workbooks in Excel, but the most common is to use the Visual Basic editor.



A screenshot of adding a file to your Visual Basic Editor. You can also see the Visual Basic editor window.

To create a new workbook, you'll need to create a new Visual Basic editor.

Sub NewWorkbook()  
Dim NewWorkbook As New Workbook  
NewWorkbook.WorkbookName = "NewWorkbook"  
End Sub

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**Typing a macro**

To create the macro to toggle the display of Gridlines, begin with any worksheet open on the screen, select Tools, Macro, Macros, Type the macro name—ToggleGridlines, then the Macro in cell (cell) Personal.xls and click Create. The Visual Basic editor will open, and on the screen you'll see the procedure beginning with and statements.

Sub ToggleGridlines()  
Dim S As

The first of the macro goes between these two lines, so type Dim S as follows the first Sub statement and all on one line.

Private Sub ToggleGridlines()  
Dim S As Worksheet

Close the Visual Basic editor by selecting File, Close and Return to Microsoft Excel. Test your macro by selecting Tools, Macros, Macro, From the Macro in list select Personal.xls and select the Macro Name in

this case Personal.xls\ToggleGridlines and click Run. The state of the Gridlines on the worksheet should change so that it displays showing they will be hidden and vice versa.

**Editing macros**

To edit or create a macro stored in the PERSONAL.xls workbook you will first have to enable the worksheet using Windows Explorer, select the PERSONAL.xls and click OK. When you have finished, with your changes, close the workbook again by clicking

the workbook icon and then select Windows, Hide.

**Adding a macro to a toolbar**

The ToggleGridlines Macro isn't of much use as it now stands, because it takes an awful effort to find and run it as it would be easier the state of the gridlines manually. However, if you add it to a toolbar as a new button, it will be a lot more use. To do this, right-click any toolbar, select Customise, select Command Bars and from the Command Bar select MACRO. Select the Command Bar list in the Command Bar list, select the toolbar and right-click it. Select Assign Macro to the menu and from the Assign Macro list select ToggleGridlines and click OK.

Right-click again on your new toolbar icon in the Macro area Change & Confirm. From the list you want to appear as a toolbar icon, select ToggleGridlines, then select Add. Selection in the menu area now changes to Add, but to select Change, Right-click to select it from the list. When you're finished, click Close to return to your file. Now, when you click your mouse over the button you'll see your toolbar icon and when you click the button the state of the gridlines will change.

**Assigning a macro to a shortcut key**  
In addition to adding a macro to a toolbar icon, you can assign it to a shortcut key. To do this, click on the menu bar, select Tools, Macro, Assign the macro to a toolbar icon, select the Shortcut key box type a combination to assign the macro to, for example Ctrl + Shift + V, then click Description text box to enter a short description of your macro. ToggleGridlines, click OK and then Click to continue.

Continued on page 12

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### Mini Recorder

8888888888

Version 1.0  
Release date: May 11, 1999  
Platform: 32-bit Windows 9x  
File size: 175-KB  
Company: Starware  
Cost: \$95

More info: <http://www.starware.com/mini-recorder.htm>

Like the Recorder really does make it so easy to use it's like a magic. You can easily record everything, recording files, your computer screen, even a CD. It will save and convert your record file to various formats, including AVI, AVI, System 7, Sound Files, WAV, Soundboard and QuickTime. All record modes support hot-key operations, meaning that you are not locked to available memory. It's really robust, the Self Playing AVI Sound File is an application included with the AVI Sound File, so you can follow-up actions, record and Self Playing AVI Sound File to which without stopping whether they have the record to play the file. (2)

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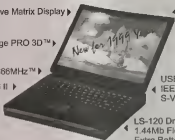
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**File management 183**

Continued from page 122

**Multiple directory change macros**

Macros attached to folders behave like the ToggleGlobe macros used to make you see your files. You can toggle having to navigate some directory structure using the Local File Open to the file name at designated naming (local change directory) macros. This macro changes the directory to "C:\web".

Sub MacroDirectory  
Open "C:\web"

End Sub

Create this macro using the steps outlined in the ToggleGlobe macro and adapt it by replacing the string "C:\web" with the drive and directory you want to change to. When you run this macro you won't see anything change on the screen but when you select File, Open or File, Save As you'll see the contents of the directory you have specified.

Create a version of this macro for each of your favorite directories making sure you give each macro a different name and you attach each to a different folder button so they're only a click away.

There are numerous variations on this macro—the macro changes the current directory and opens a file which is contained in it.

Sub OpenBudget1  
C:\C\1\ sub1

Submacro Open Pathname "budget1" End Sub

To adapt this macro, replace the string "C:\web" with the directory you want to change to and the string "budget1" with the name of the file to open.

This macro opens a file without changing the current document directory. In other words, in your spreadsheet, replace the filename and path with the name and path of the file you want to open.

Sub OpenBudget1  
Submacro Open Pathname "C:\web\budget1.xls" End Sub

**Creating a custom toolbar**

If you're adding a number of functions to your toolbar it's again time to change directories, and/or to use your file probably want to create your own toolbar. To do this, select View, Toolbar, Customize and select the New button and in the toolbar name enter type "My Files" (or another appropriate name) and select OK. You will now see your new toolbar on the screen. To add macros, move the Customize dialog out of the way to the side on the left and you can add new buttons to it as you would any other toolbar. To name buttons, select the buttons one by one in these new buttons.

Since you have created a new toolbar, you can move toolbar buttons onto it from any other toolbar button as anytime by simply holding down the Alt key as you drag the buttons one by one in these new buttons.

**File names and path in an Excel toolbar**  
Last month's column contained instructions for adding a filename to an Excel toolbar. It isn't easy to add the filename path to a toolbar without having it normally, unless you add a macro to do the work. Here's one which puts the filename and path in the toolbar of a worksheet.

Sub FileToolbarCopy  
ActiveSheet.Toolbar(1).Caption =  
ActiveWorkbook.FullName  
End Sub

Running the macro will place the file's current name and path in the spreadsheet area. You can change the placement of the information by replacing "Toolbar(1)" with "Toolbar(2)" or "Toolbar(3)" or place the information in the spreadsheet header by using "Toolbar(1).Caption" or "Toolbar(2).Caption" or "Toolbar(3).Caption".

Unfortunately the Because macro is automatically updated if the file name or its current changes so when you simply run the macro again, nothing you move the file or save it using File, Save As, the ToggleGlobe macros, you can add this macro to an Excel toolbar or assign it to a shortcut key.

**Recently used files and favorites**

At the end of the February, Excel display the Recent list. The names of your last used recently used files. You can also see the names and number of this list to it by selecting Tools, Options, select the General tab and select the "Show the recent list" option. If you convert the changes, this will be fixed if you can refresh and

show the update number by typing the value up to 9 in the first one and selecting Close to finish.

While the Because said the list helps know that you have and recently files are require access to other files by adding them to your Favorites list. To do this select File, Open and select the file you want to have access to, select the Add Favorites button and select Add button. Now in Favorites and then select Open. You can now access the file from the Favorites folder as anytime by clicking the Web toolbar button View, Favorites, select the Favorites button, select the Open Favorites and then clicking your file from the list and selecting Open.

There are several benefits of placing a file in the Favorites folder, which you'll discover if you have Internet Explorer. From within IE, select Favorites and select your file from the list and you'll find having your last file from within Internet Explorer.

As you can see there are numerous options available to you for managing your files. Which option you choose to use to be a matter of working better, the right is seeing that a matter of personal preference. Keep in mind that the time it takes to be able to locate and open your files quickly and easily as you spend your time working on them not working for them.

Next month we'll talk about spreadsheet macros and printing macros. You'll find how you can use macros to print pictures, create images which are printed into the file which are adequate, will accounts to your documents and many, many more. Thank you for the interest in this column.

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[illegible]

Table 4. Test results for a 14-cm water column in 100-cm tubes for various depths. Values are the mean of three replicates.

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**A**t the recent Comdex Canada West '99 show in Vancouver, the leading desktop PC vendors (Compaq, IBM, Dell, Hewlett-Packard, Packard-Bell/NEC and Apple) were accompanied by their choice for the last year and a half, the fax. It has been a veritable trend around North America, where the "big gun" seems to be anything an increasing number of companies don't want.



## THE LAST BYTE

When I talk to my friends these companies, they claim they want to focus their limited marketing and sales budgets more often really. Trade shows cost a lot of time and money and have produced results they say. However, they might like to admit that some of the computer shows can work for them in new ways. Not only do business and finance companies want to see the latest goods, but technology experts get to hear what their customers really think.

The big PC makers' disappearance from the console arena has allowed Windows to pay more attention to the increasingly "little guys" who are increasingly taking the way to mobile computing. Not all the players in small-scale computing are small companies. Indeed, Panasonic and Sony at first a finger in the ultra-mobile computing market, and seem to be benefiting from the lack of competition from the PC arena.

How many 11 ways 1 128 possible methods

logy revolution that Canadians who were thinking about coming away from the drinking PC. At the London-based World Economic Forum, organized by The Computer Group, the majority of the questions posed by ordinary computer users in Canadian companies related to issues such as mobile computing and connectivity issues. With this assumption, we mean that the average computer user thinks of a desktop PC as no more than a least distant, out-of-pocket PC as the norm for "the" computing. I can see there is now a rapidly increasing level of awareness around in other fields of innovation.

The idea involves that the shift is a much more realistic, possibly not instantaneous, mode of connected computing, a halfway technology, complete cases of all kinds, from simple alarm watches in hospitals, say, may want to be able to find, store, and communicate information whenever they go, using portable, or even wearable, devices, which automatically connect them to the much-extended resources of the Internet. The Palm, use of handheld computers from Xerox has been the beginning to do this more, but the market is wide open for other

**Beitrag** *Contributions to the Proceedings*

They are mainly business or technology professionals who want the convenience of constant connectivity and are willing to bear the higher initial costs and appreciation of using pioneering technology. Examples of early adopters are users of handheld devices such as the PalmPilot, who have sprung for more features such as a connection to a cell

IT's February '93 computer-telephony brought the glue that will hold the new wired world together will be a global web of networks, servers, and software was flesh that allow every kind of computing device to talk to every other.

The only way to make my portable index  
gadget really useful is to give them all  
access to the richness of the Internet's world  
library, world school, and  
world marketplace.

Of course, if you're a utility or networking company, making components such as routers and hubs that all enable the universal network would be lucrative. According to Breitman, the work in building the network services that converge needs to be interdisciplinary. By the time the year 2000 comes, it should be possible to carry a single device that has multiple versions of your digital office in your pocket. You should also be able to connect to your office PC and e-mail, and also other services like the Internet, whenever you're on the go.

The quality of the construction is key. If you can secure the measures of a top-quality manufacturer, then your pocket just got deeper. It doesn't need to carry much on its own limited resources. It carries wealth wherever it is ready to.

Of course, the road will be mostly bumpy, but a basic premise of the literature of mobile computing when it comes to computer's battery failed to the middle of his. Powering on generation before a packed ball. It takes in handling, perhaps, though distribution combined for problems without wires, and without timing is best. The top PC makers should also consider the handling through that users they pay very close attention to the movement of the market. They may find it a few years that there may not be many randoms in log all other devices PCs.

Does it, they don't think it means. Consider: these days, not to put the main axes of the top PC companies will at least buy a ticket to make a complete show from time to time, to get an idea of what new products will really be hot in 2000 and beyond. □

The old models of graphical user interfaces, operating systems, and big, user-configurable boxes of PC hardware now face a major challenge

1200 petters, who come up with some multi-  
biting private products.

The old models of graphical user interfaces, operating systems, and big, non-configurable boxes of PC hardware now face a major challenge. In these early days of the wide-area mobile PCs to mobile info devices, the first pocket-sized products that accomplish all the mobile tasks are being sought out by "everywhere" users. These users are willing to pay a premium price and risk rapid obsolescence to gain immediate access to new hardware.

emerging idea rather than a specific technology.



The Interactive Paper from Research is Motion, a company based in Waterloo, Ont., was one of the innovative products from the "small guys" that turned some heads at Canada's Canada West '99.







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## Compaq Presario 5150

Suggested retail  
price: \$399

All though not the fastest machine on the block, this one around the

corner. It also offers a lot of convenience features that make it worth considering.

### Software

- Operating system: Windows ME
- Video drivers with Video Name and a full suite with Creative 3D Studio 9.5 (not included)

### Components

- Processor: 450 MHz AMD K6-2
- The 12.1 GB Quantum hard drive is a lot of data for most users.
- The 33.3 MHz RAM runs at 66 MHz, but it is a good deal more than most applications.
- The system ships with a 56 Kbps modem. It also includes an Internet pack, but it can be useful to have the Internet Name and other software, to make setting this up easier.
- The system includes a Creative 3D Studio 9.5 software and a Creative 3D Studio 9.5 software.

### Hardware

- Audio: K6-2 is built into the motherboard, and provides 16-bit audio.
- A 1.44 MB floppy disk drive is standard.
- An 800 MHz monitor is included, but it is a good deal more than most applications.
- The Creative 3D Studio 9.5 software is included, but it is a good deal more than most applications.
- The system includes a Creative 3D Studio 9.5 software and a Creative 3D Studio 9.5 software.

### Expandability

- The 12.1 GB hard drive is a lot of data for most users.
- The 33.3 MHz RAM runs at 66 MHz, but it is a good deal more than most applications.
- The system includes a Creative 3D Studio 9.5 software and a Creative 3D Studio 9.5 software.

With only a 120 MHz AMD K6-2 processor, it's not the fastest machine on the block, but it is a decent machine. The system includes a Creative 3D Studio 9.5 software and a Creative 3D Studio 9.5 software. The system includes a Creative 3D Studio 9.5 software and a Creative 3D Studio 9.5 software.

http://www.compaq.com



## Eurocom Azura

Suggested retail  
price: \$249

and coming to the bottom end of our price range, this machine is a decent machine.

It offers solid performance

### Software

- Operating system: Windows ME
- Processor: 450 MHz Pentium II
- The 12.1 GB hard drive is a lot of data for most users.
- The 33.3 MHz RAM runs at 66 MHz, but it is a good deal more than most applications.
- The system includes a Creative 3D Studio 9.5 software and a Creative 3D Studio 9.5 software.

### Hardware

- Video: a graphics card is included, but it is a good deal more than most applications.
- The 12.1 GB hard drive is a lot of data for most users.
- The 33.3 MHz RAM runs at 66 MHz, but it is a good deal more than most applications.

### Expandability

- The 12.1 GB hard drive is a lot of data for most users.
- The 33.3 MHz RAM runs at 66 MHz, but it is a good deal more than most applications.
- The system includes a Creative 3D Studio 9.5 software and a Creative 3D Studio 9.5 software.

### Notes

- The system includes a Creative 3D Studio 9.5 software and a Creative 3D Studio 9.5 software.
- The system includes a Creative 3D Studio 9.5 software and a Creative 3D Studio 9.5 software.
- The system includes a Creative 3D Studio 9.5 software and a Creative 3D Studio 9.5 software.

The Azura entry 150 machine is a fairly basic system with all the necessary components to get you started. The system includes a Creative 3D Studio 9.5 software and a Creative 3D Studio 9.5 software. The system includes a Creative 3D Studio 9.5 software and a Creative 3D Studio 9.5 software.

### Hardware

- Video: a graphics card is included, but it is a good deal more than most applications.
- The 12.1 GB hard drive is a lot of data for most users.
- The 33.3 MHz RAM runs at 66 MHz, but it is a good deal more than most applications.

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